

09/627,580

Please amend page 6 lines 24-30 to read as follows:

B² ~~In another embodiment, the analyte-specific reagents in each detection chamber include an antibody specific for a selected analyte-antigen. In a related embodiment, when the analyte is an antibody, the analyte-specific detection reagents include an antigen for reacting with a selected analyte antibody which may be present in the sample.~~

Please amend page 11 lines 8-23 to read as follows:

B³ ~~As noted in the Summary of the Invention, the sample-distribution network of the invention may utilize any of a number of different channel configurations, or channel means, for delivering sample to the individual detection chambers. With reference to Fig. 2A, distribution network 34a includes sample inlet 38a, vacuum port means 40a, a plurality of detection chambers 44a, and channel means comprising a single channel 46a to which the detection chambers are each connected by dead-end fluid connections 48a. The detection chambers are distributed on either side of channel 44a, with the fluid connections branching off in pairs from opposite sides of the channel. Fig. 2B shows a portion of an alternative network 34b having an inlet 38b and detection chambers 44B, wherein fluid connections 48b branch off from channel 46b in a staggered manner.~~

Please amend page 13 lines 1-11 to read as follows:

B⁴ ~~Figs. 3A-3A illustrate the filling process for a sample-distribution network 34 in accordance with Fig. 2A. The network includes sample inlet 38, detection chambers 44, and sample delivery channel 46 which is connected to the various detection chambers by dead-end fluid connections 48. The network further includes a vacuum reservoir 40 at the terminus of the delivery channel. A plurality of the detection chambers 44 contain dried detection reagents for detecting a different selected analyte in each chamber, with one or more chambers optionally being reserved as controls.~~